20050127/20020660

FIG. 1

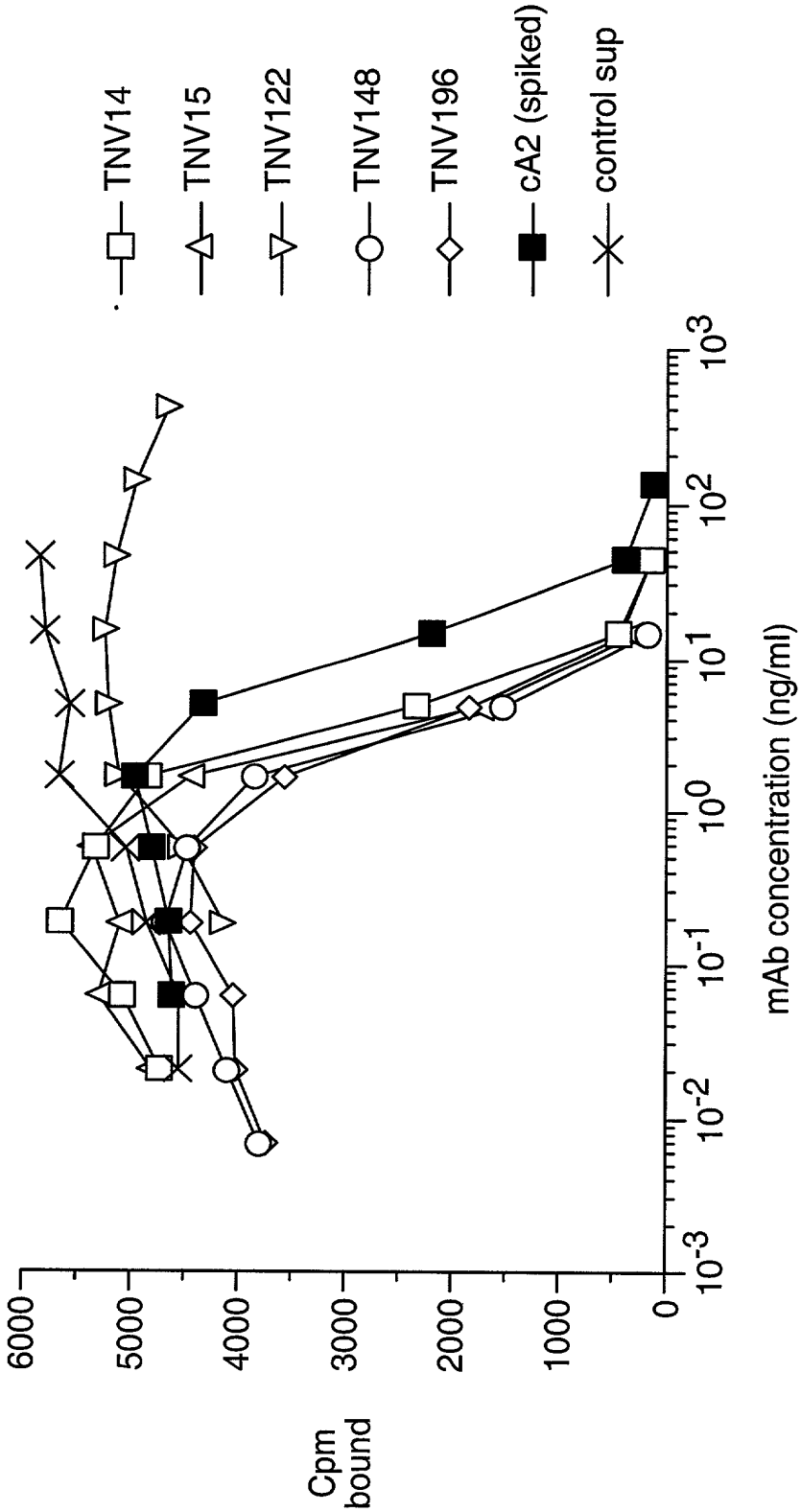

FIG. 2A

```
TNVs        ATGGGGTTTGGGCTGAGCTGGGTTTTCCTCGTTGCTCTTTTAAGA

                                Q  V  Q  L  V  E  S  G  G  G  V
germline                    CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTG
TNVs        GGTGTCCAGTGT.............................
TNV148(B)   GGTGTCCAGTGT.....A.........................

             V  Q  P  G  R  S  L  R  L  S  C  A  A  S  G
germline    GTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGA
TNVs        .............................................

             F  T  F  S  S  Y  A  M  H  W  V  R  Q  A  P
germline    TTCACCTTCAGTAGCTATGCTATGCACTGGGTCCGCCAGGCTCCA
TNV14,15    .............................................
TNV148(B)   ....T.....................................
TNV196      ....................C.....................

             G  K  G  L  E  W  V  A  V  I  S  Y  D  G  S
germline    GGCAAGGGGCTGGAGTGGGTGGCAGTTATATCATATGATGGAAGC
TNV14       ........................A....C.T...........T
TNV15       ........................T.....T...........T
TNV148(B)   .....C..................T....G.............
TNV196      ........................T.....................

             N  K  Y  Y  A  D  S  V  K  G  R  F  T  I  S
germline    AATAAATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCC
TNV14       .GC...A.G.....G............A.................
TNV15       ..C...A.G.......................C...........
TNV148(B)   ......A.G.....................................
TNV196      ......A.G.C.............................G.....
```

FIG. 2B

```
                 R  D  N  S  K  N  T  L  Y  L  Q  M  N  S  L
germline  AGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTG
TNV14     .............................................
TNV15     ................G............................
TNV148    .........C...................................
TNV148B   .............................................
TNV196    ......................T......................

                R  A  E  D  T  A  V  Y  Y  C  A  R
germline  AGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGA
TNV14,15  ...................................GATCGAGGT
TNV148(B) ..........................................A
TNV196    ....................T.....................

                                Y  Y  Y  Y  Y  G  M  D  V  W
germline                  TACTACTACTACTACGGTATGGACGTCTGG
TNV14
ATATCAGCAGGTGGAA..........................
TNV15
G.C...........A.T..T.....................
TNV148(B) ...G.........A.....................
TNV196    ..TGG.........A.....................

               G  Q  G  T  T  V  T  V  S  S
germline  GGGCAAGGGACCACGGTCACCGTCTCCTCAG
TNV14           ..C.........................
TNV15           ..C.........................
TNV148(B) ..C.....................
TNV196    ..C..G.....................
```

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FIG. 3

```
TNVs        ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTC

                          E  I  V  L  T  Q  S  P  A  T
germline                  GAAATTGTGTTGACACAGTCTCCAGCCACC
TNVs        CCAGATACCACCGGA.............................

             L  S  L  S  P  G  E  R  A  T  L  S  C  R  A
germline    CTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCC
TNVs        ..........................................

             S  Q  S  V  S  S  Y  L  A  W  Y  Q  Q  K  P
germline    AGTCAGAGTGTTAGCAGCTACTTAGCCTGGTACCAACAGAAACCT
TNV14,15    ..........................................
TNV148,196
            ............TA..............................

              G  Q  A  P  R  L  L  I  Y  D  A  S  N  R  A
germline    GGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCC
TNVs        ..........................................

              T  G  I  P  A  R  F  S  G  S  G  S  G  T  D
germline    ACTGGCATCCCAGCCAGGTTCAGTGGCAGTGGGTCTGGGACAGAC
TNVs        ..........................................

              F  T  L  T  I  S  S  L  E  P  E  D  F  A  V
germline    TTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTT
TNVs        ..........................................

             Y  Y  C  Q  Q  R  S  N  W  P  P  F  T  F  G
Germline      TATTACTGTCAGCAGCGTAGCAACTGGCCTCCATTCACTTTCGGC
TNVs        ..........................................

              P  G  T  K  V  D  I  K  R
gerline     CCTGGGACCAAAGTGGATATCAAACGT
TNVs        ...........................
```

FIG. 4

germline	MGFGLSWVFLVALLRGVQC	**signal**
TNVs	.....	
germline	QVQLVESGGGVVQPGRSLRLSCAASGFTFS	**FR1**
TNVs	.....	
TNV148(B)	.....I..	
germline	SYAMH	**CDR1**
TNVs	.....	
germline	WVRQAPGKGLEWVA	**FR2**
TNVs	.....	
TNV148(B)	.....N.....	
germline	VISYDGSNKYYADSVKG	**CDR2**
TNV14	I.L....S.K.....D	
TNV15	F.L.....K.....	
TNV148(B)	FM.....K.....	
TNV196	F.....KS.....	
germline	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR	**FR3**
TNV14	.....	
TNV15	.....A.....	
TNV148	.....P.....	
TNV148B	.....	
TNV196	...V.....F.....F....	
germline	--------YYYYYGMDV	
TNV14	DRGISAGGN.....	**CDR3**
TNV15	...V....N.....	
TNV148(B)	....A...N.....	
TNV196	....G...N.....	
germline	WGQGTTVTVSS	**J6**
TNVs	.....	

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FIG. 5

TNVs	MEAPAQLLFLLLLWLPDTTG	**signal**
germline	EIVLTQSPATLSLSPGERATLSC	**FR1**
TNVs	.....	
germline	RASQSVSSYLA	**CDR1**
TNV14	.....	
TNV15	.....	
TNV148(B)	.....Y....	
TNV196	.....Y....	
germline	WYQQKPGQAPRLLIY	**FR2**
TNVs	.....	
germline	DASNRAT	**CDR2**
TNVs	.....	
germline	GIPARFSGSGSGTDFTLTISSLEPEDFAVYYC	**FR3**
TNVs	.....	
germline	QQRSNWPPFT	**CDR3**
TNVs	.....	
germline	FGPGTKVDIK	**J3**
TNVs	.....	

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FIG. 6

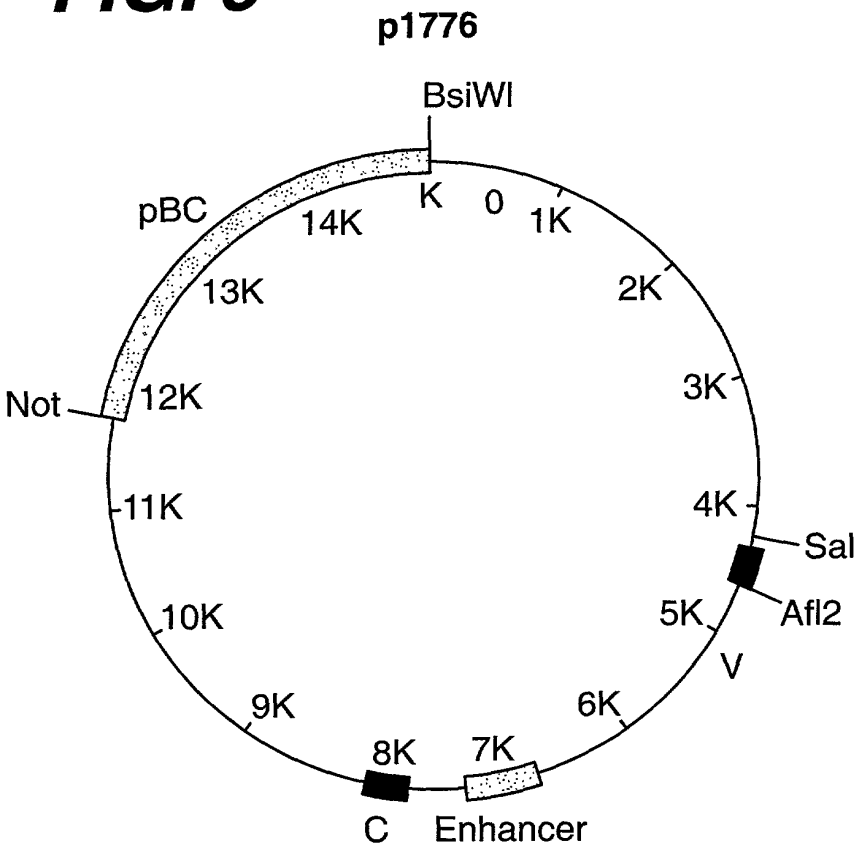

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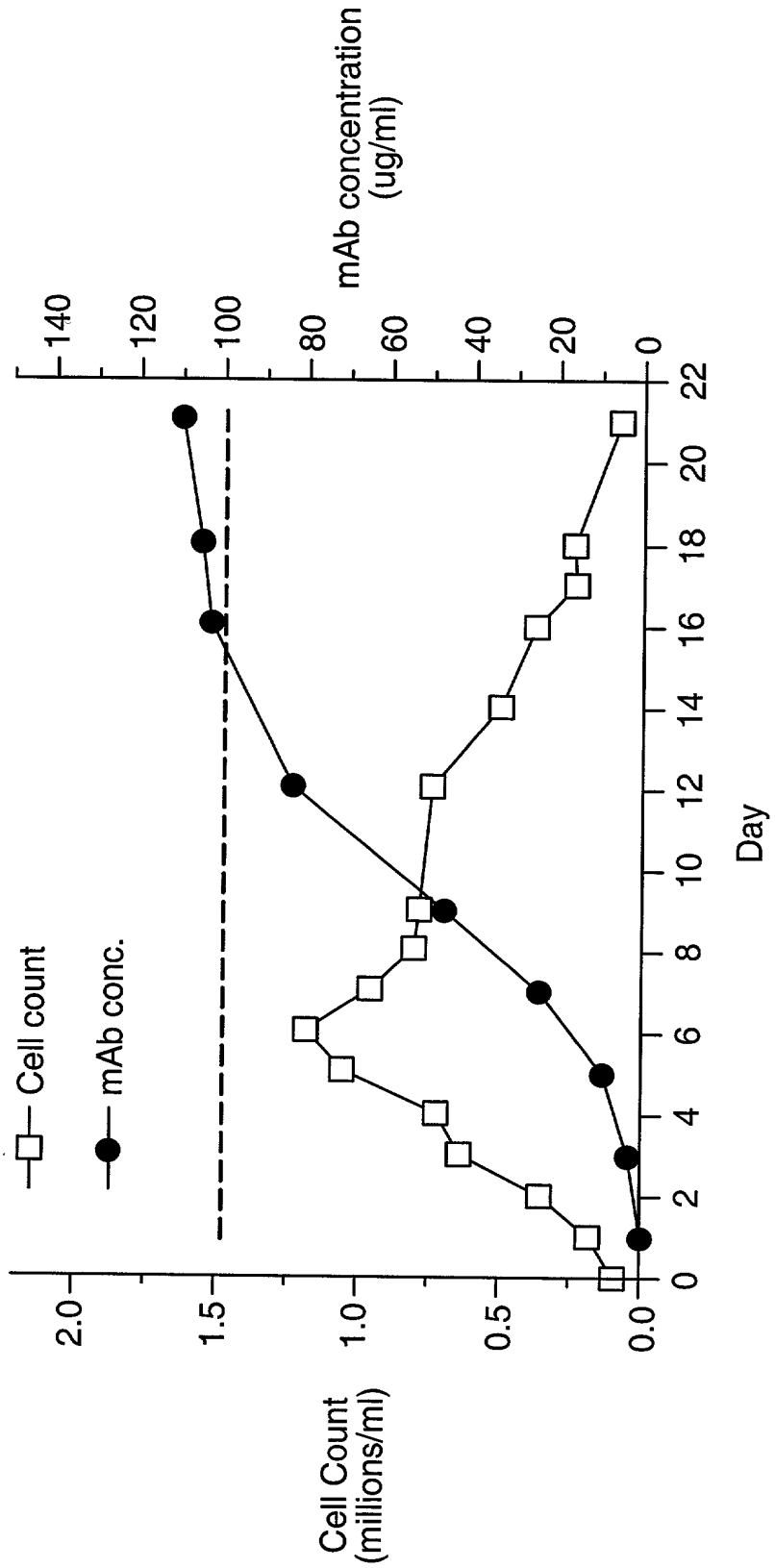
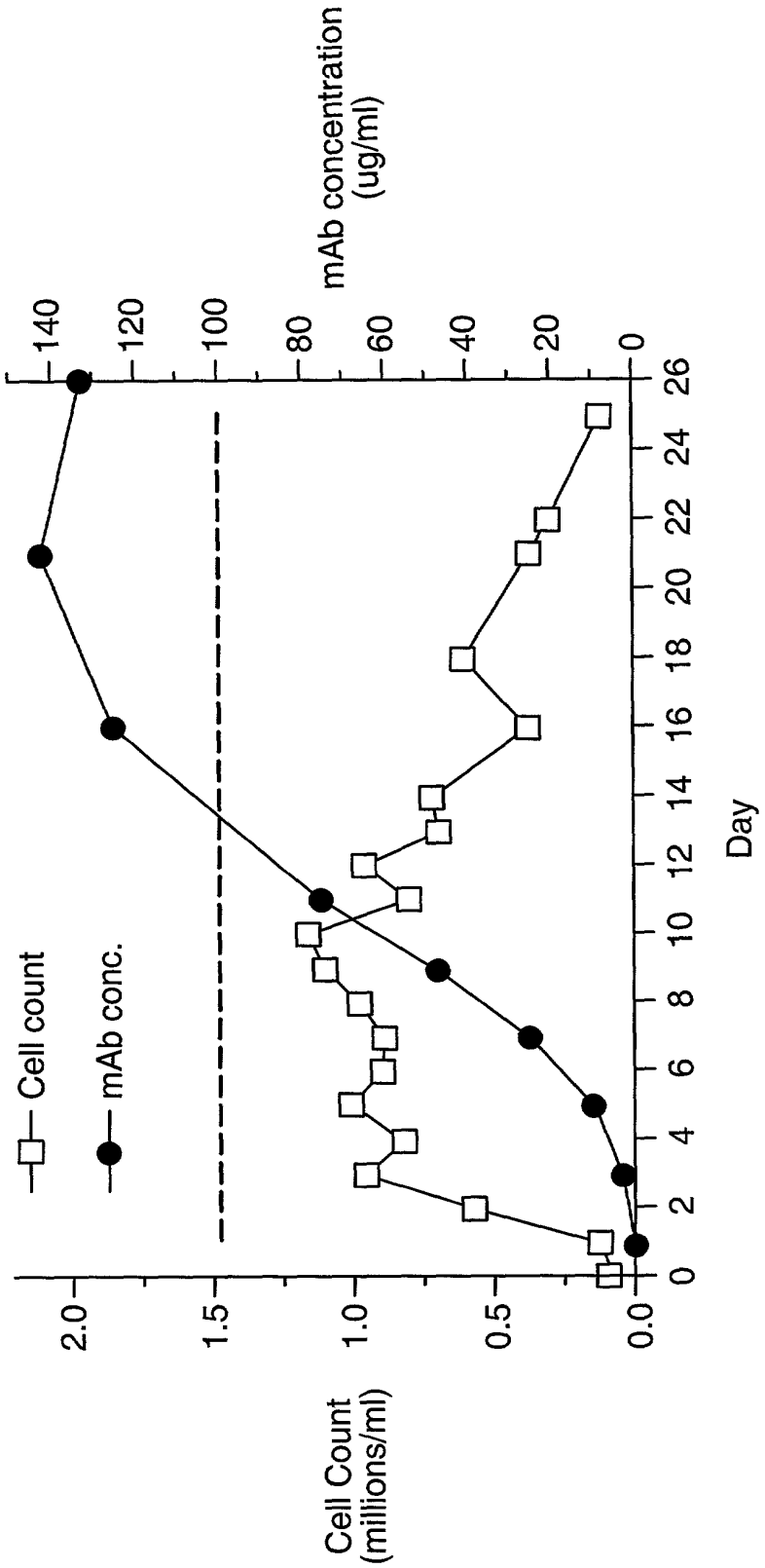
FIG. 7A



20050427.020640

FIG. 7B



20050721 155268

FIG. 7C

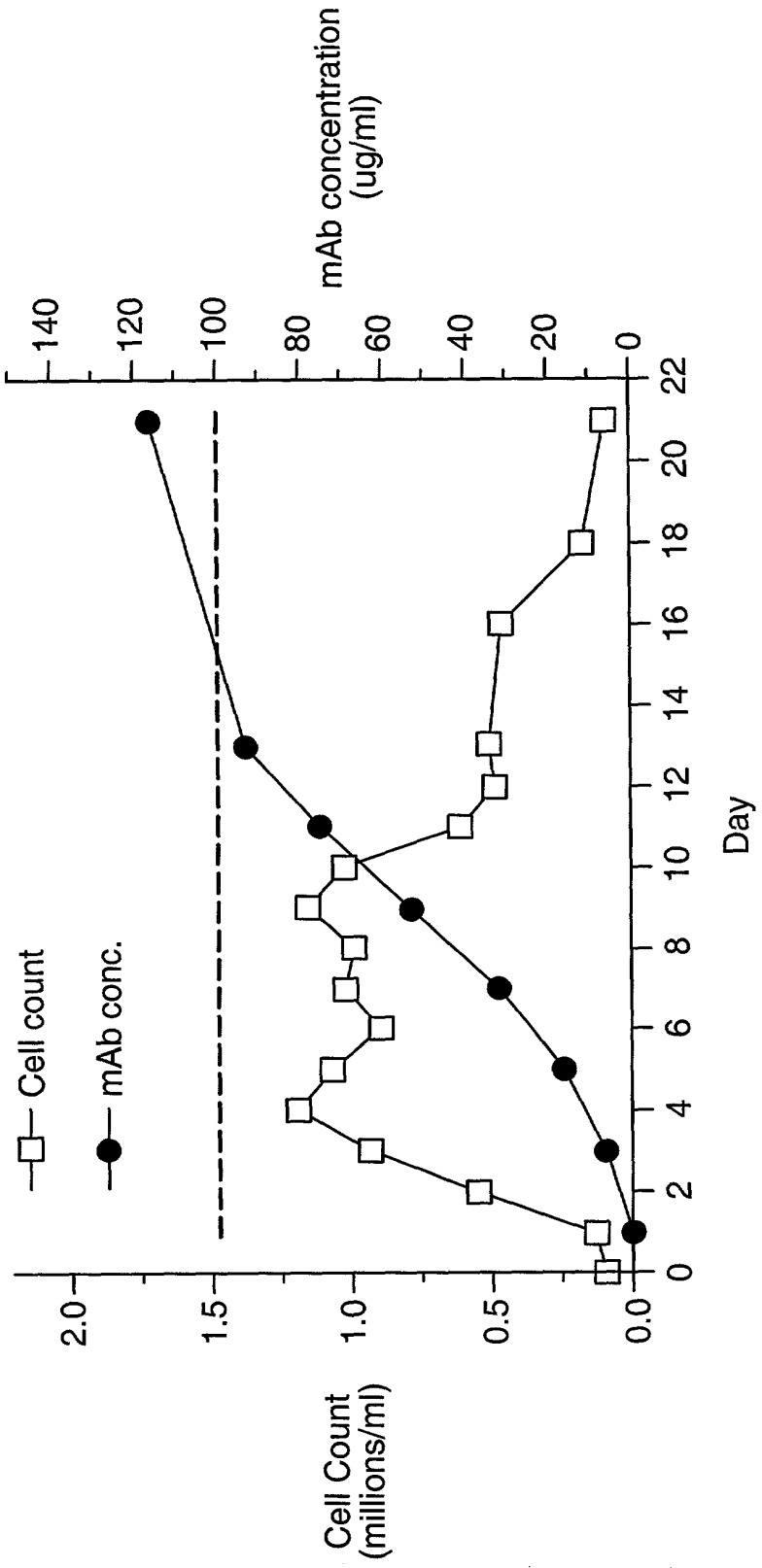


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FIG. 7D

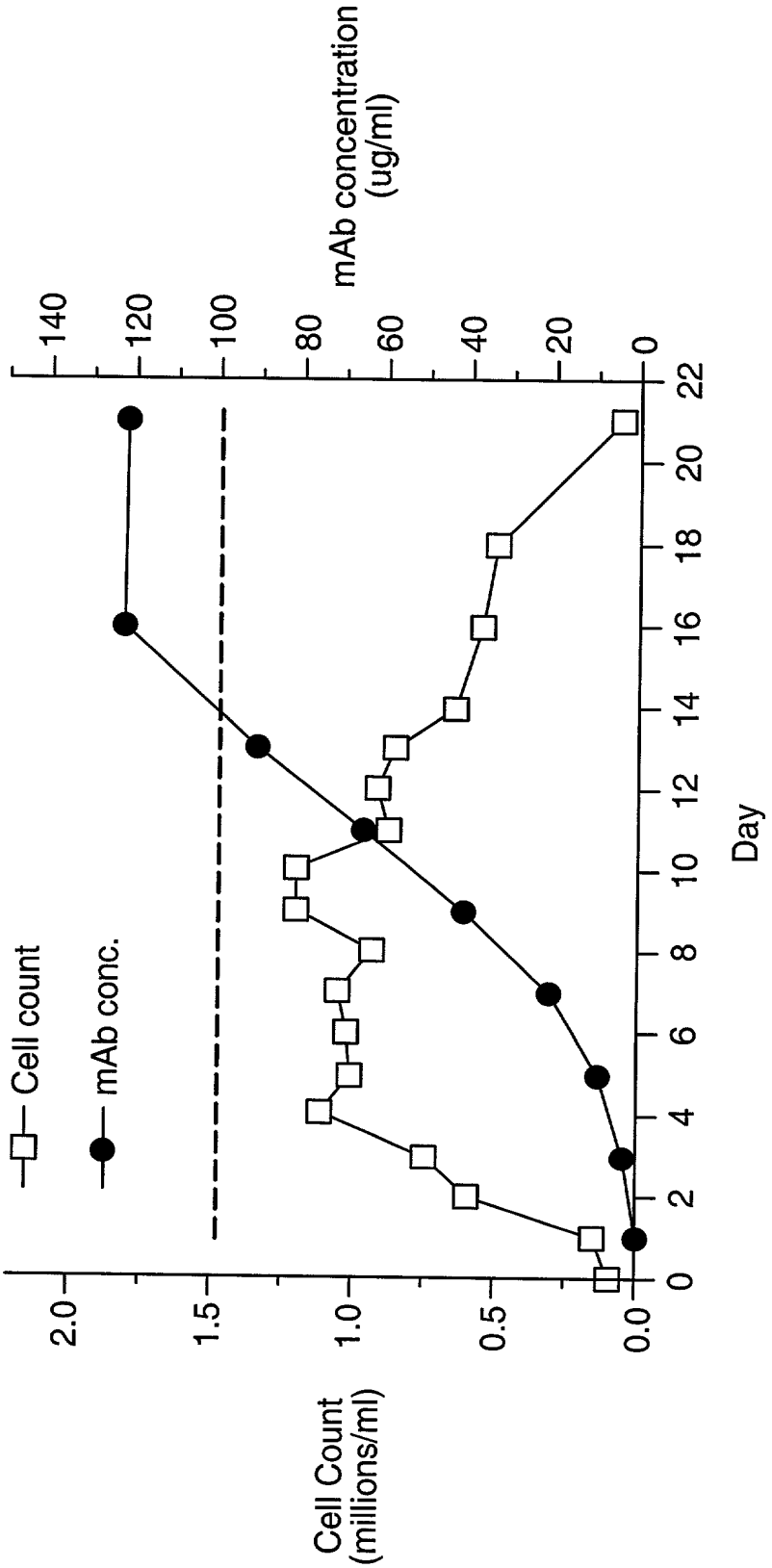

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FIG. 7E

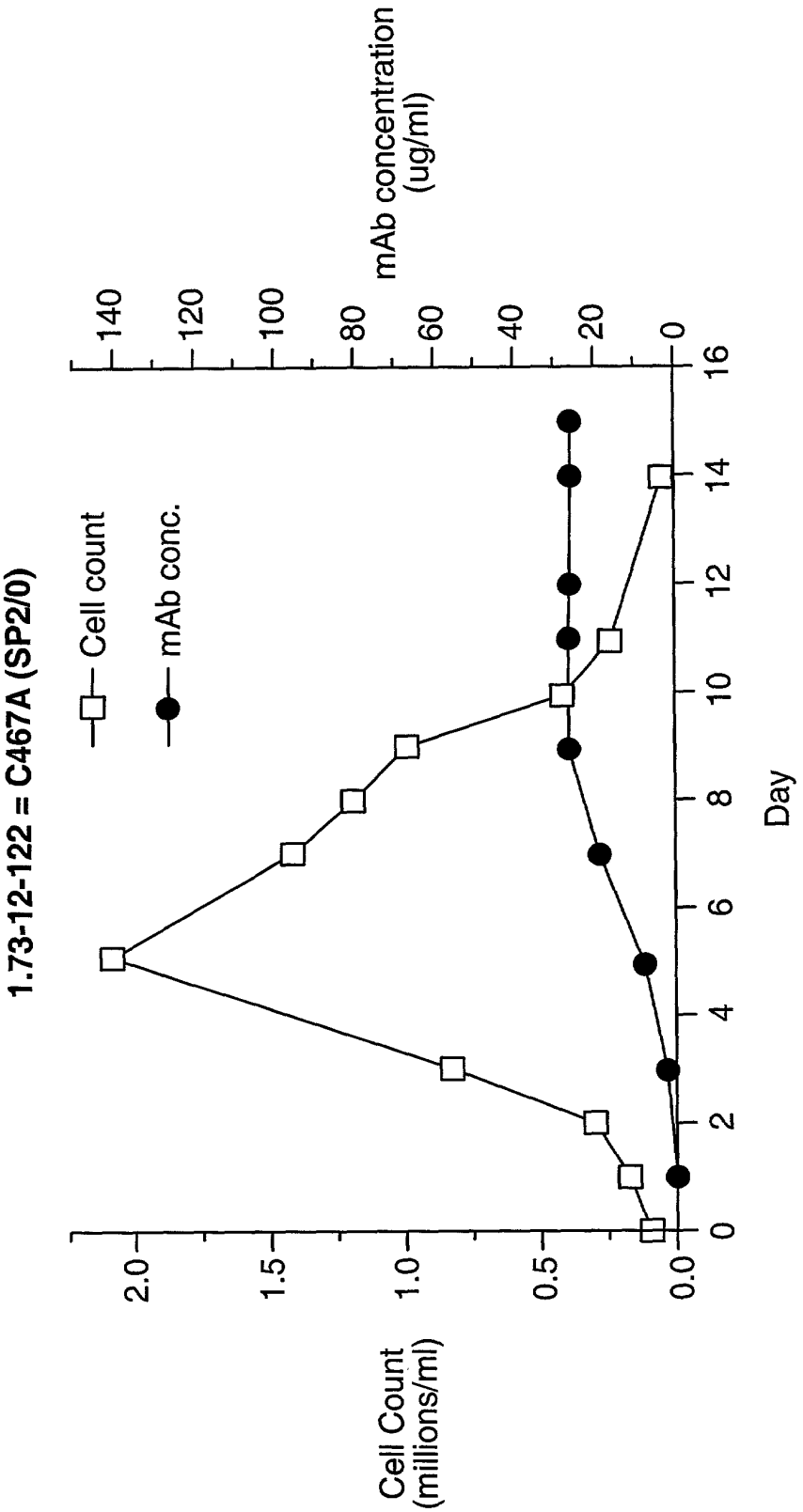

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FIG. 8

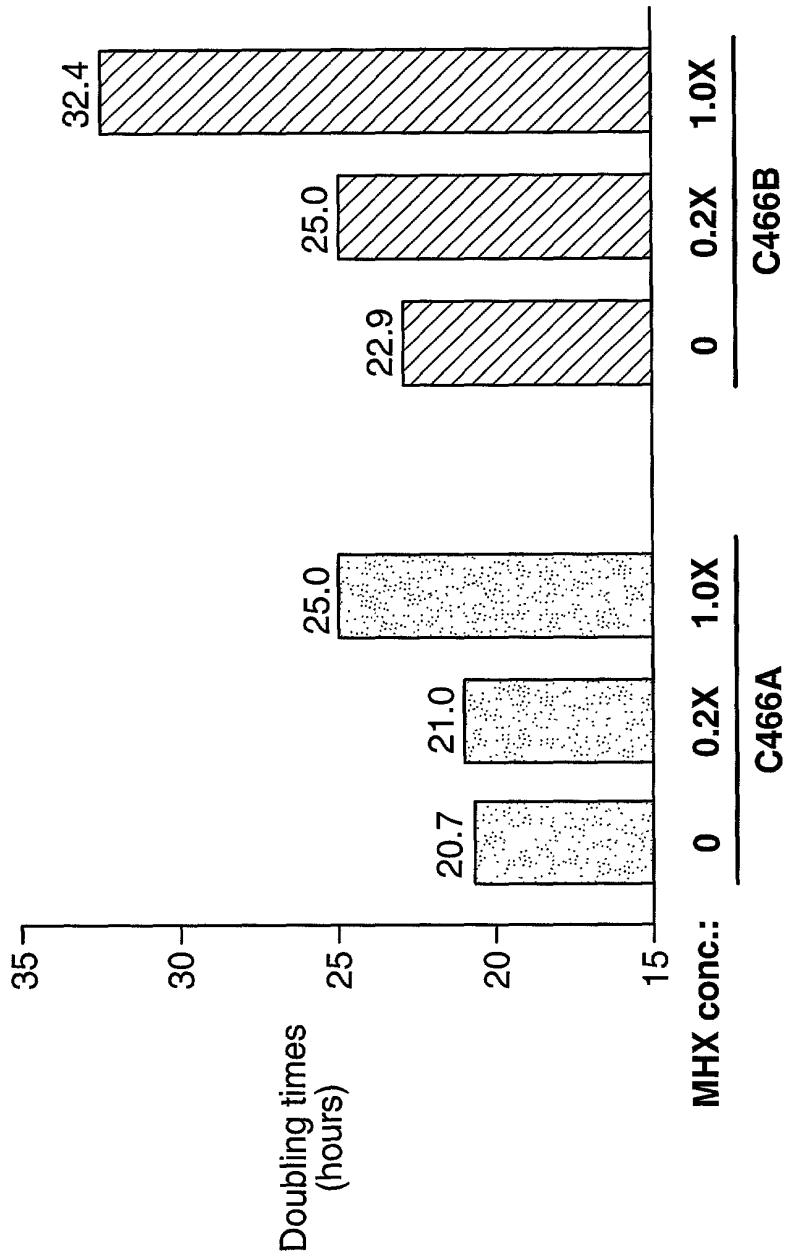


FIG. 9A

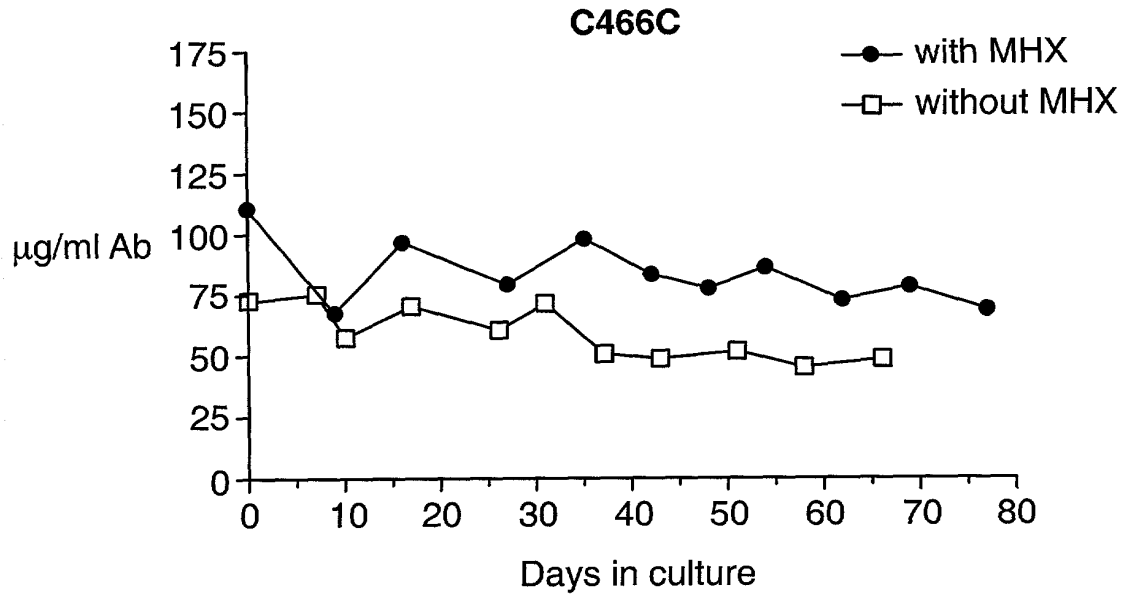
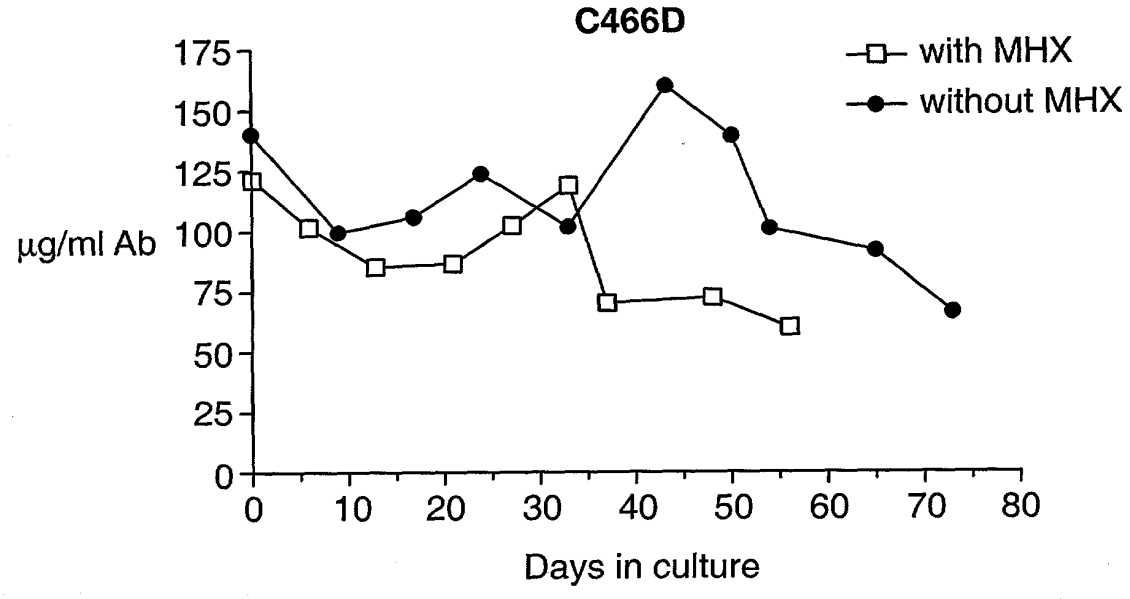
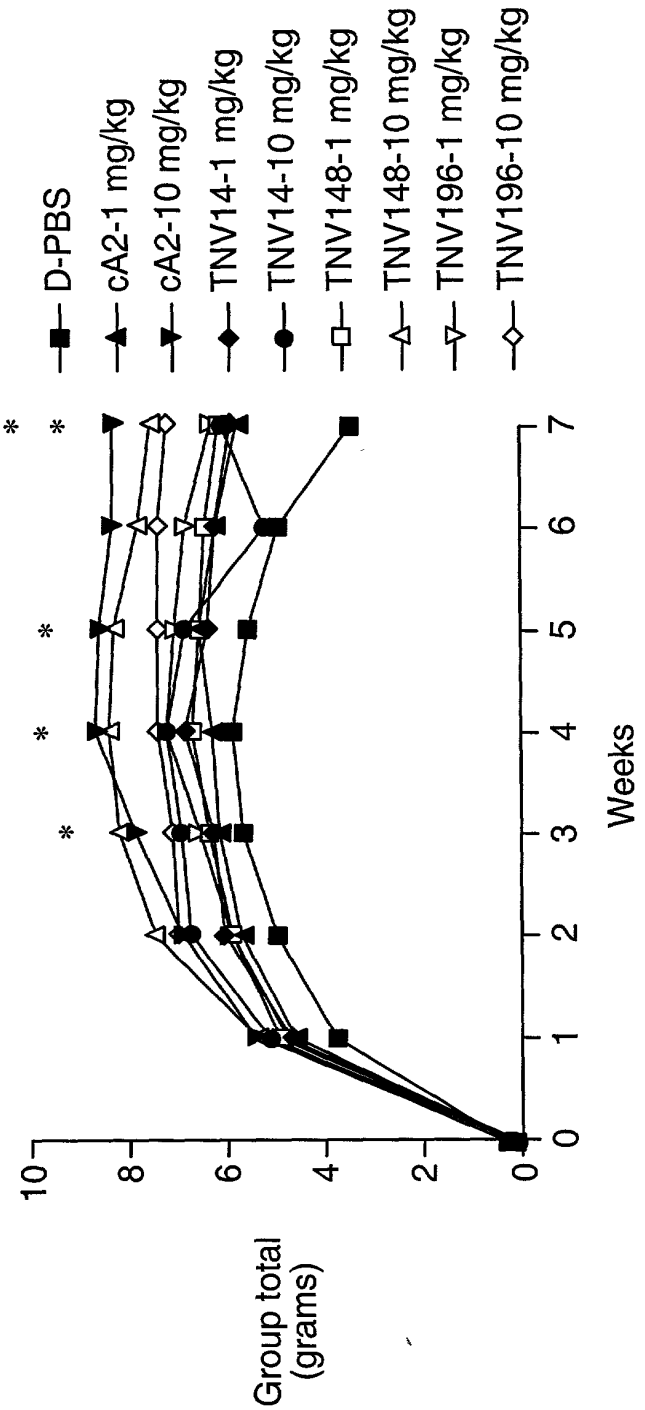

C466C
with MHX
without MHX
µg/ml Ab
175
150
125
100
75
50
25
0
0
10
20
30
40
50
60
70
80
Days in culture

FIG. 9B


C466D
with MHX
without MHX
µg/ml Ab
175
150
125
100
75
50
25
0
0
10
20
30
40
50
60
70
80
Days in culture

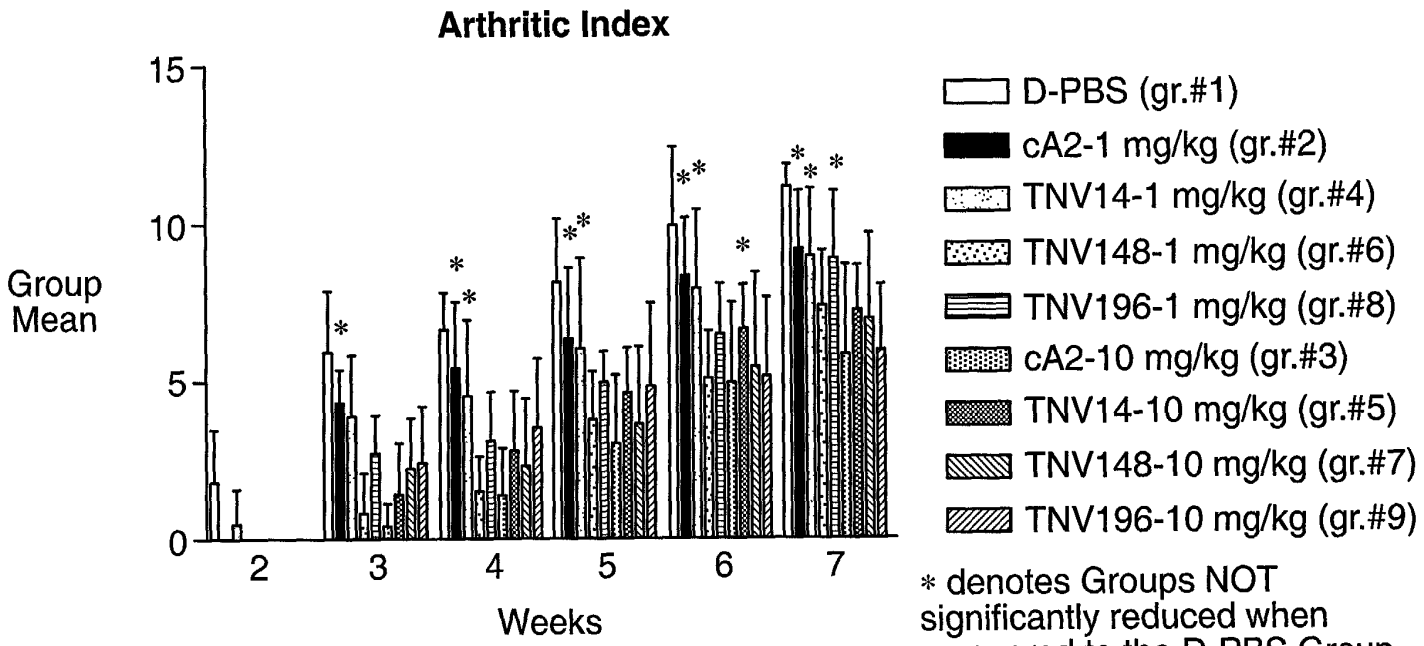
20020147169

FIG. 10



20050 EP02660

FIG. 11A

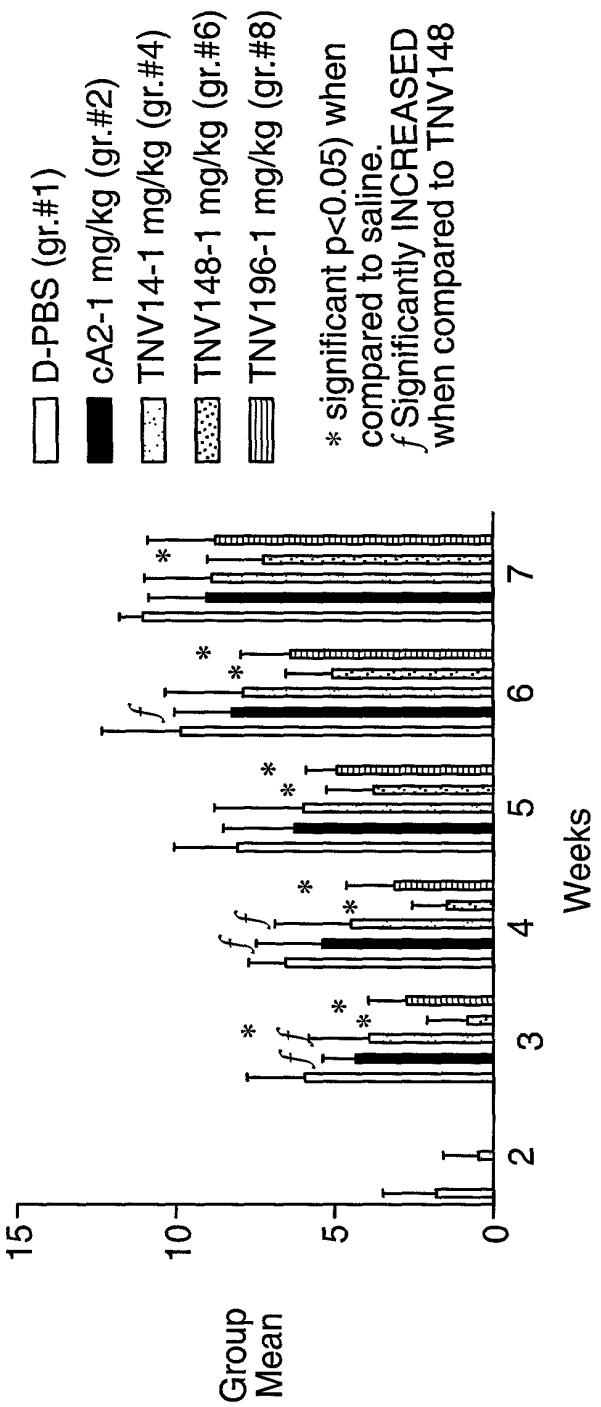


* denotes Groups NOT significantly reduced when compared to the D-PBS Group. All Groups not marked are significant ($p<0.050$).

TITLE: Anti-TNF Antibodies, Compositions ...
INVENTOR(S): G. Heavner et.al.
APP#: 09/920,137
ATTY: Guy K. Townsend TEL.#:732-524-2517
DOCKET #: CEN-0250 CUST.#: 000027777

20020147248

FIG. 11B



20020025563

FIG. 11C

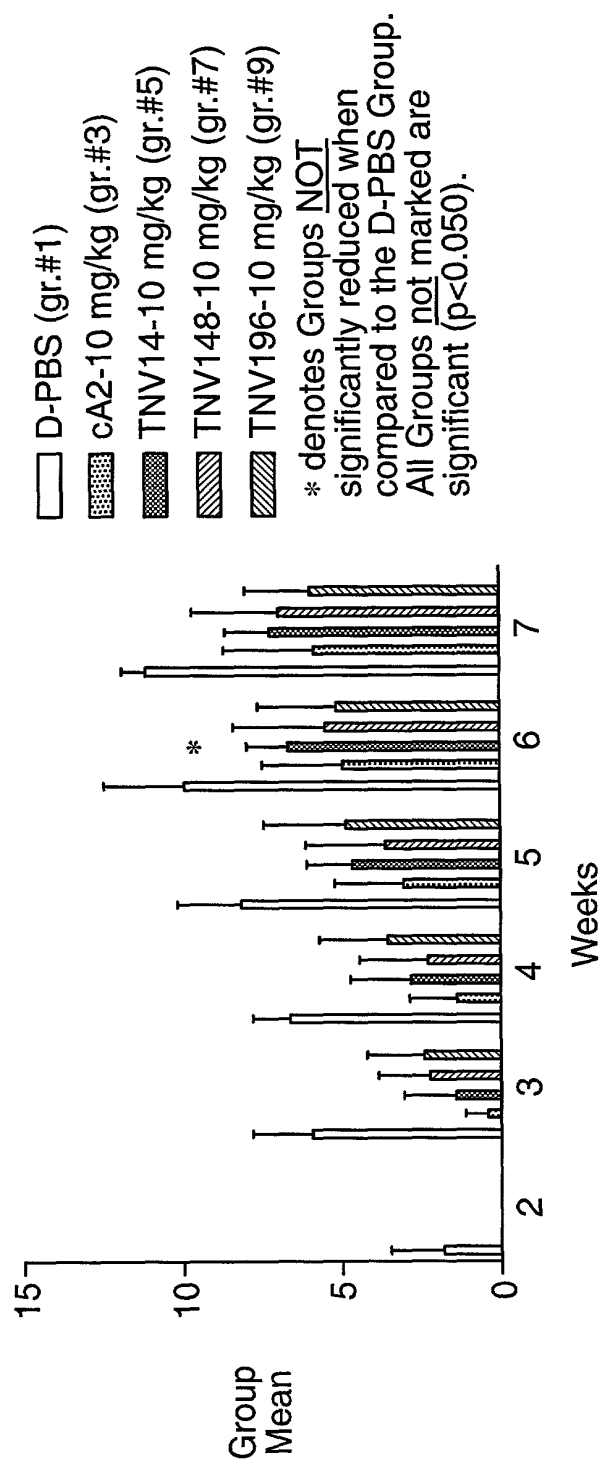


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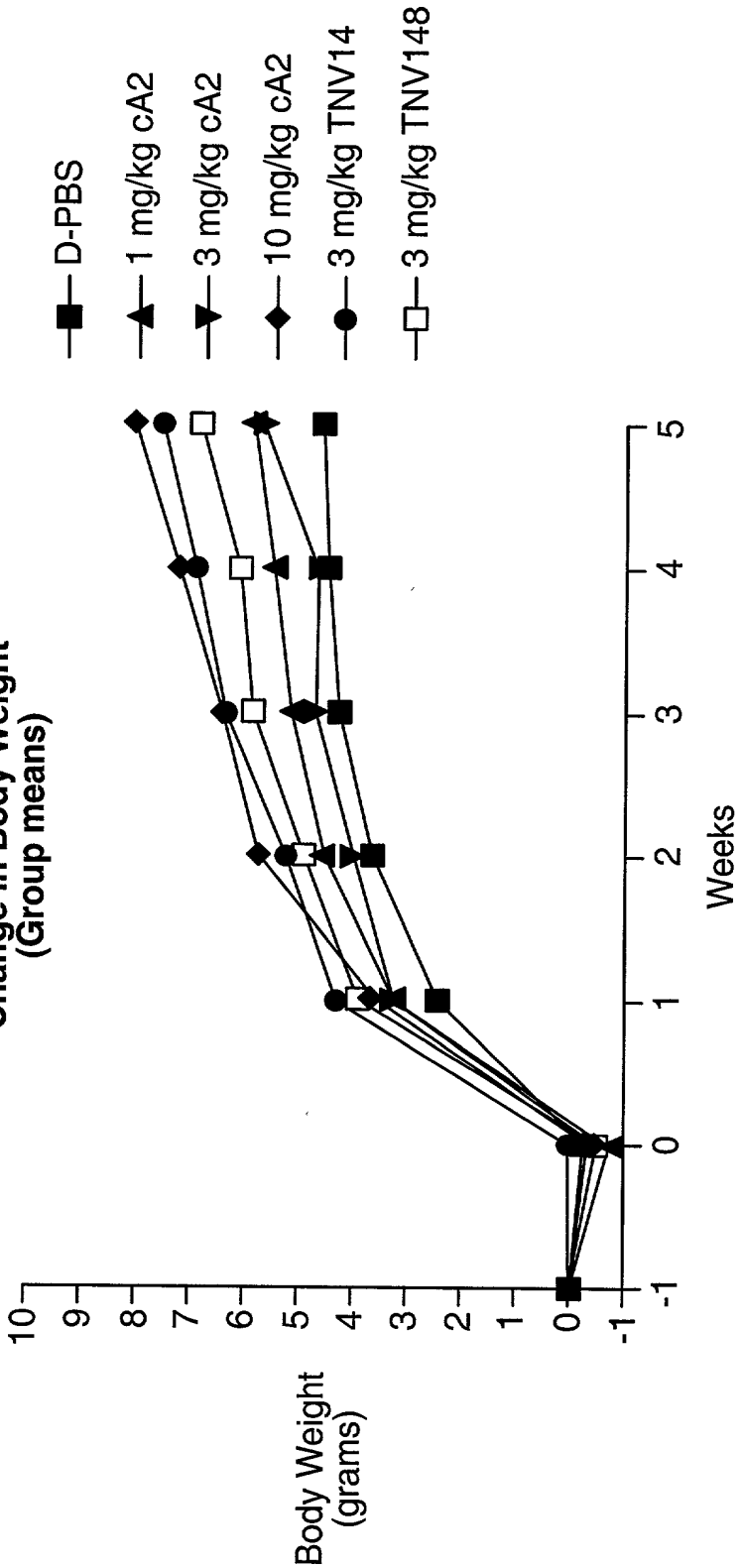
FIG. 12



20020827.1425

FIG. 13A

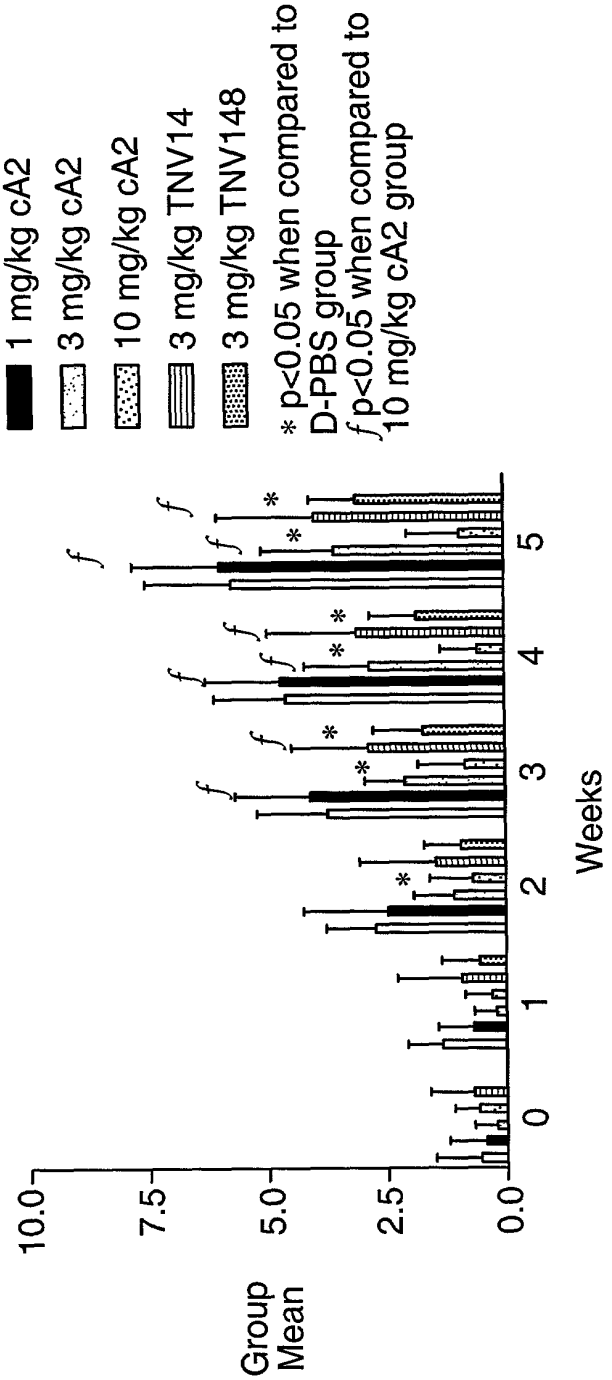


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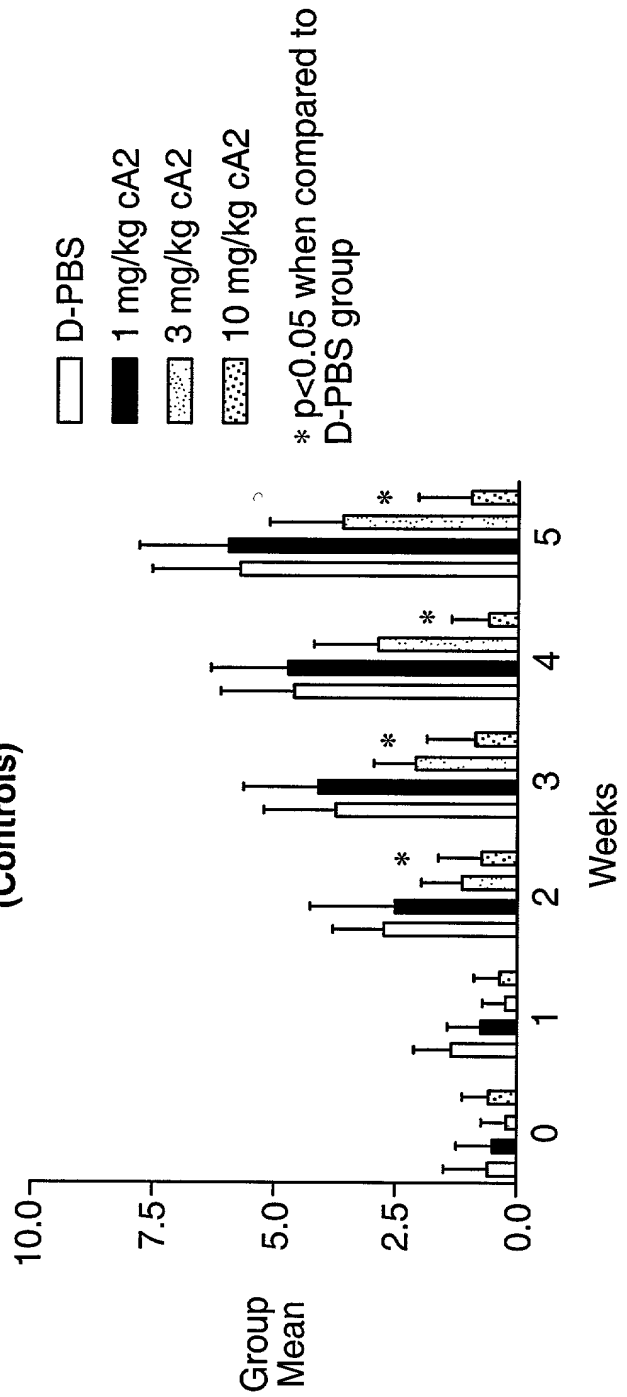
FIG. 13B



20050721225550

FIG. 13C

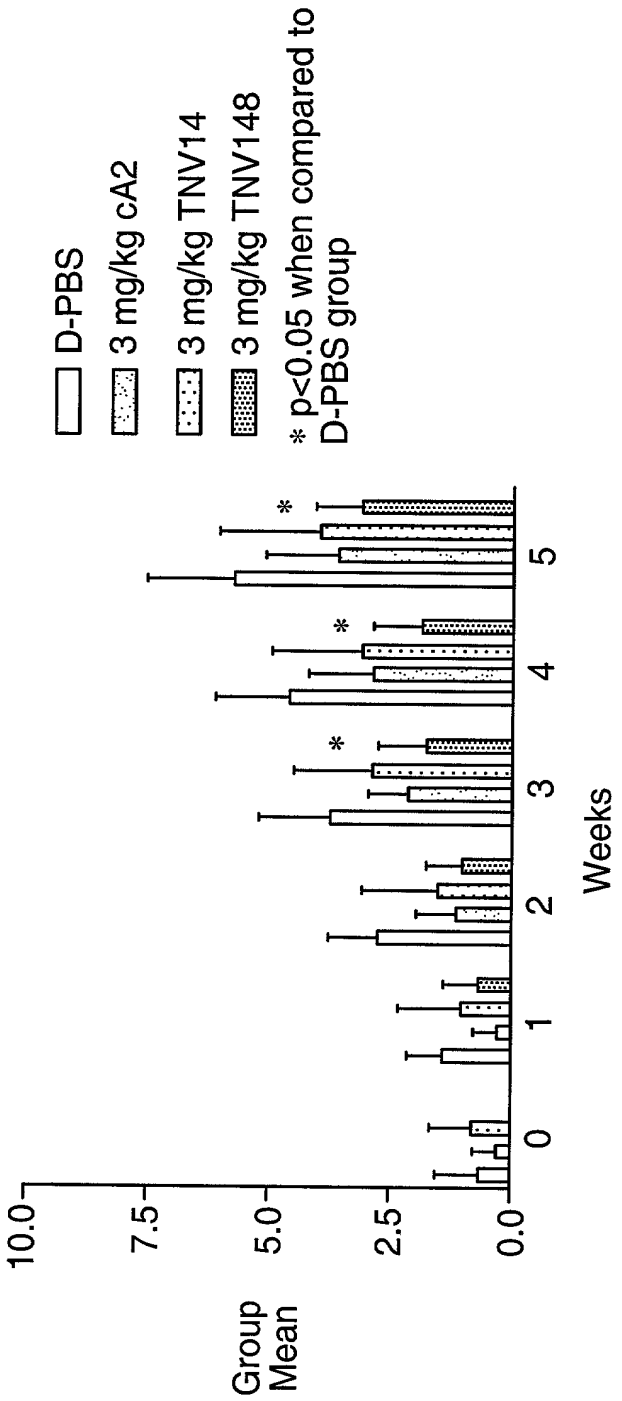


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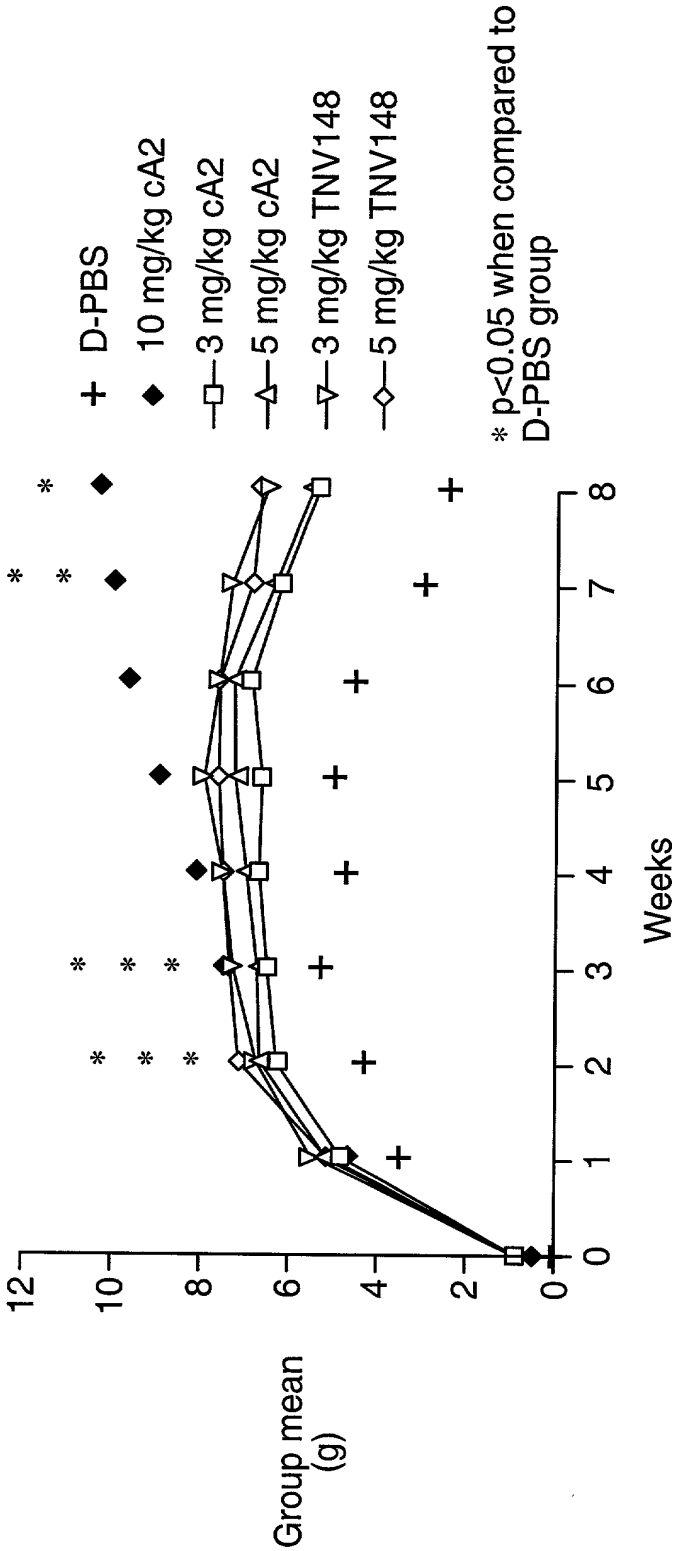
FIG. 14



20020072760

FIG. 15

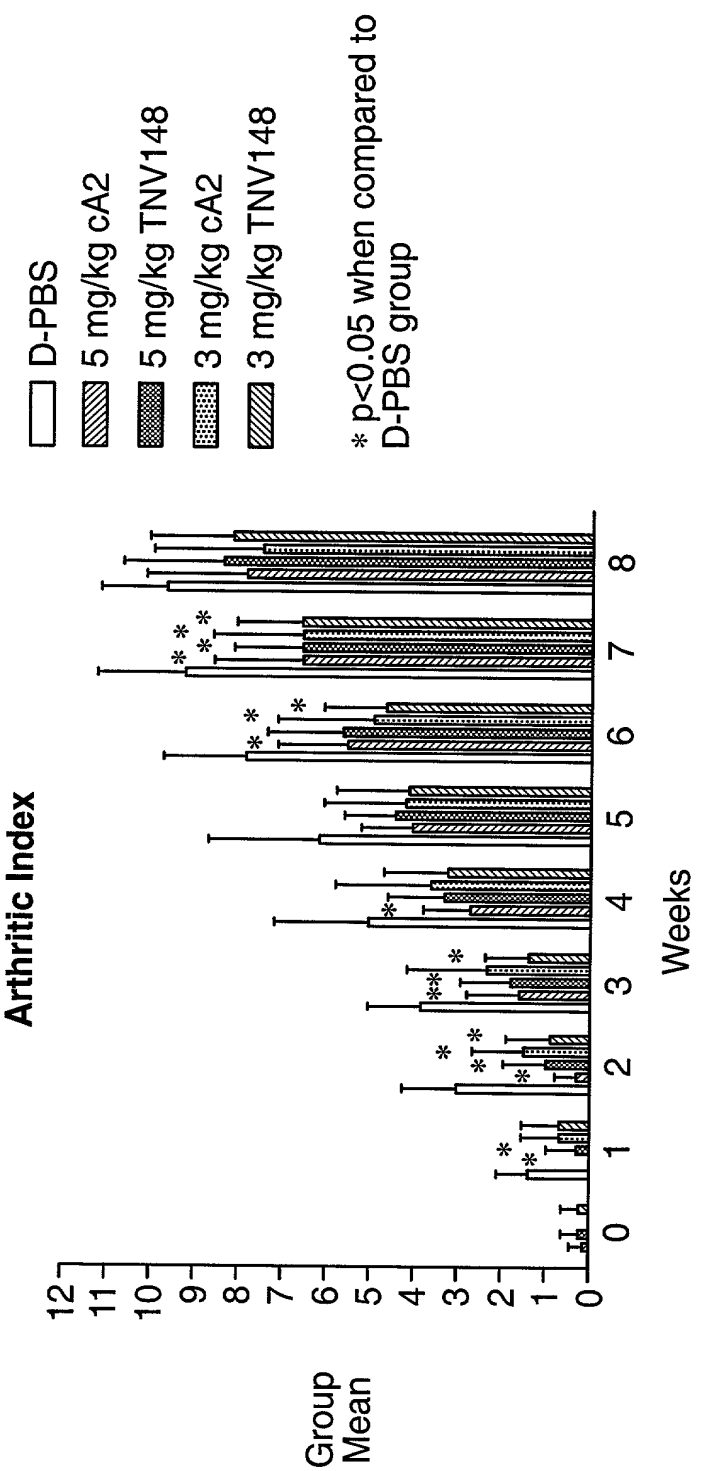


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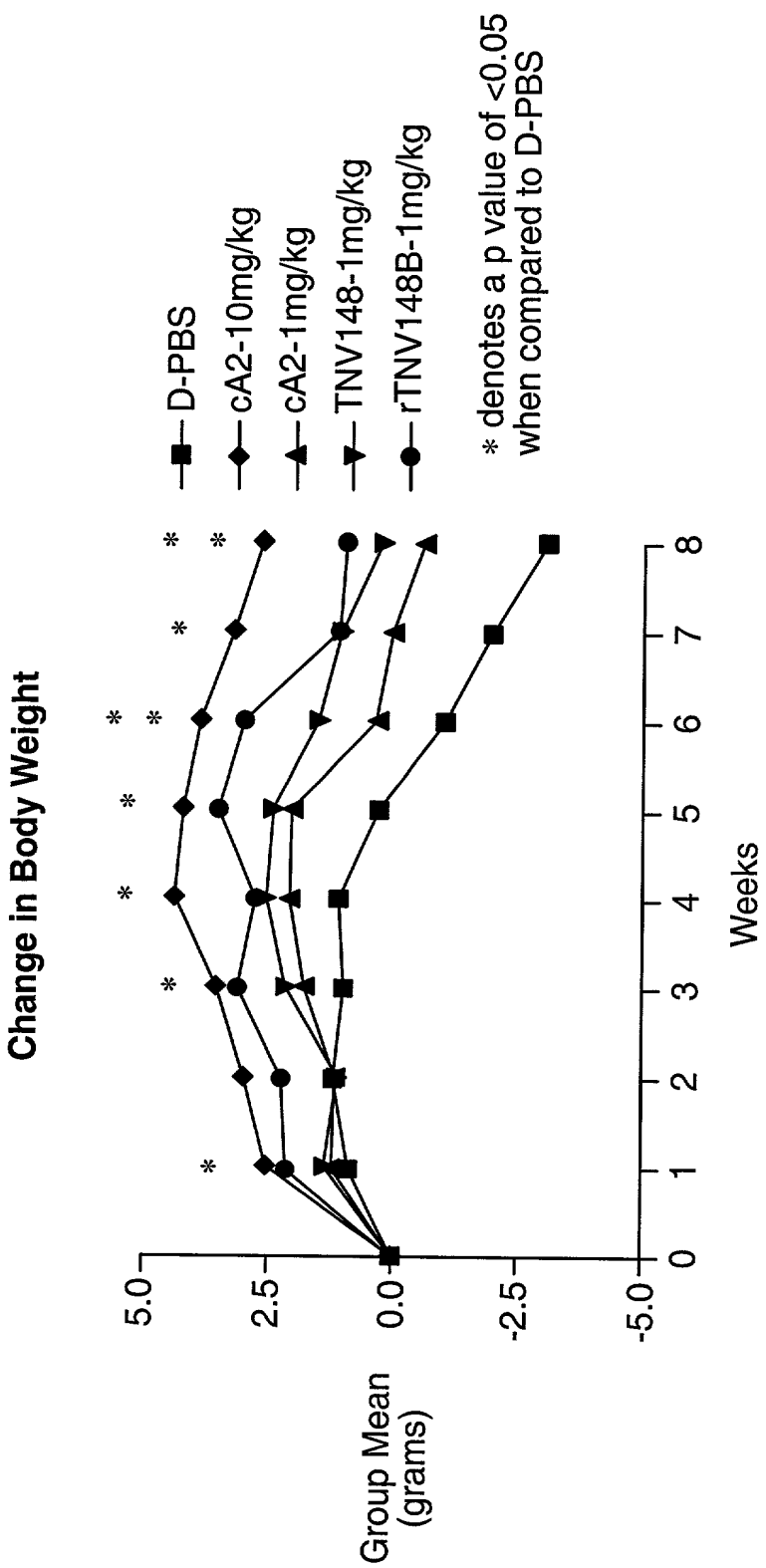
FIG. 16



20020037549

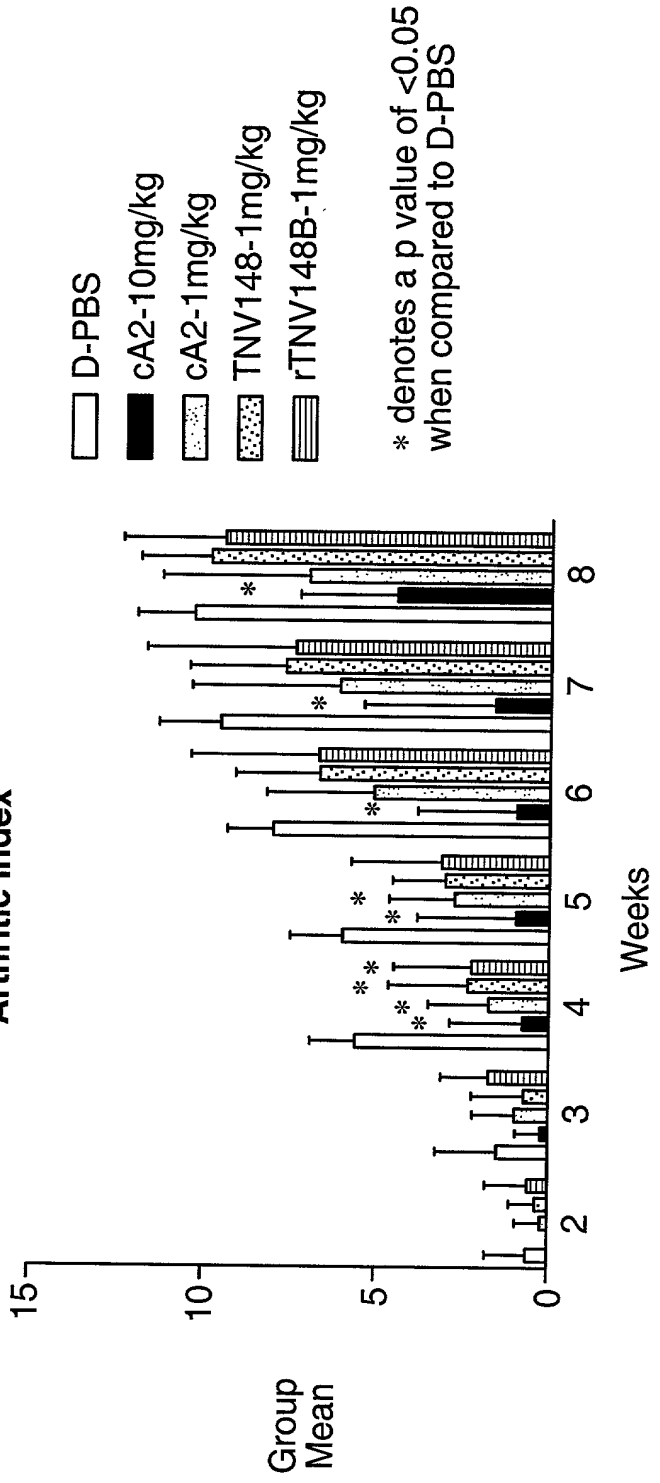



FIG. 17